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# CO<sub>2</sub> Flat Top Beam Shaper 7mm | πShaper 7\_7\_10.6

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Stock #34-259 [CONTACT US](#)

1 [-](#) [+](#) A\$10,829<sup>00</sup>

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Volume Pricing	
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## Product Downloads

## General

πShaper 7_7_10.6	<b>Model Number:</b>
Beam Shaper	<b>Type:</b>
Flat Top	<b>Style:</b>

## Physical & Mechanical Properties

Length (mm):  
143.00

Weight (g):  
<270

Diameter (mm):  
39.00

## Optical Properties

Entrance Beam Diameter,  $1/e^2$  (mm):  
7

Design Wavelength DWL (nm):  
10600

Wavelength Range (nm):  
10000 - 11000

Damage Threshold, By Design:   
20 mJ/cm<sup>2</sup> @ 5ns (typical)

Output Diameter, FWHM (mm):  
7.0

Damage Threshold, Pulsed:  
20 mJ/cm<sup>2</sup> @ 5ns (typical)

## Threading & Mounting

Mounting Threads:  
M27 x 1

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

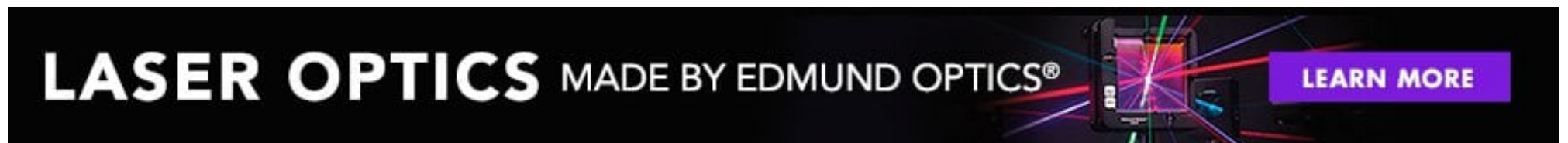
Reach 250:  
[Compliant](#)

## Product Details

- Convert Gaussian Beam Profile to Flat Top Profile
- Near 100% Efficiency
- No Internal Focusing Enables High Power Laser Input
- [AdlOptica Focal- \$\pi\$ Shaper Q Flat Top Beam Shapers](#) Also Available

AdlOptica  $\pi$ Shaper (piShaper) Flat Top Beam Shapers are refractive field mapping optical systems that convert collimated Gaussian input beams into collimated flat top beams with a uniform intensity distribution and flat phase front. Due to the field mapping optical design, the even intensity distribution of the converted beam is stable over great distances making it ideally suitable for holography, microscopy, system integration and ultrafast applications. With no internal focusing, they are also the perfect solution in applications such as material micromachining, welding, and engraving that require high power lasers. These AdlOptica  $\pi$ Shaper Flat Top Beam Shapers are offered in common YAG, fiber laser, and CO2 laser sources, operating over a defined wavelength range for laser tuning. Achromatic versions are designed to be used with multiple laser sources.

**Note:** Focusing a flat-top beam after a  $\pi$ Shaper results in loss of the flat top profile. [AdlOptica Focal- \$\pi\$ Shaper Q Flat Top Beam Shapers](#) are available for applications that require a focused flat top spot.



## Technical Information

Example of beam shaping for TEM<sub>00</sub> Laser

